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| APPLICATION NO. FILING DATE | | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | |
|---|------------------|----------------------|---------------------|------------------|--|--|
| 10/764,619 01/26/2004 | | Gary McAlister | 10121/00308 | 8922 | | |
| 30636 | 7590 06/14/2006 | | EXAM | EXAMINER | | |
| FAY KAPLUN & MARCIN, LLP 150 BROADWAY, SUITE 702 | | | ANDERSEN, MICHAEL T | | | |
| NEW YORK, | 5 | | ART UNIT | PAPER NUMBER | | |
| • | المرسيع المراسية | | 3734 | | | |

DATE MAILED: 06/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Applic | ation No. | Applicant(s) | C | | | |
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| Office Action Summary | | 10/76 | 4,619 | MCALISTER ET A | _ | | | |
| | | Exami | ner | Art Unit | | | | |
| | | 1 · | omas Andersen | 3734 | | | | |
| Period fo | The MAILING DATE of this commun or Reply | ication appears on | the cover sheet wit | th the correspondence ac | idress | | | |
| WHIC - Exte after - If NC - Failu Any | ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comn of period for reply is specified above, the maximum st are to reply within the set or extended period for reply reply received by the Office later than three months are d patent term adjustment. See 37 CFR 1.704(b). | IAILING DATE OF of 37 CFR 1.136(a). In n nunication. atutory period will apply a will, by statute, cause the | THIS COMMUNIC o event, however, may a re and will expire SIX (6) MONT application to become ABA | CATION. Sply be timely filed ITHS from the mailing date of this of the control | | | | |
| Status | | | | | | | | |
| 1) 又 | Responsive to communication(s) file | ed on <u>08 July 2005</u> | <u>5</u> . | | | | | |
| , | This action is FINAL . 2b) This action is non-final. | | | | | | | |
| 3) | , — | | | | | | | |
| • | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Disposit | ion of Claims | | | | | | | |
| 4)⊠ | 4) Claim(s) <u>57-72</u> is/are pending in the application. | | | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | |
| 5)□ | Claim(s) is/are allowed. | | | | | | | |
| 6)⊠ | Claim(s) <u>57-72</u> is/are rejected. | | | | | | | |
| 7) | | | | | | | | |
| 8)[] | 8) Claim(s) are subject to restriction and/or election requirement. | | | | | | | |
| Applicat | ion Papers | | | | | | | |
| 9)⊠ | The specification is objected to by th | e Examiner. | | | | | | |
| 10) | The drawing(s) filed on is/are | : a) ☐ accepted o | r b) objected to b | by the Examiner. | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | | |
| Priority (| under 35 U.S.C. § 119 | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). | | | | | | | | |
| | See the attached detailed Office action | on for a list of the c | ertified copies not i | received. | | | | |
| Attachmen | ot(s) ce of References Cited (PTO-892) | | 4) Interview S | ummary (PTO-413) | | | | |
| 2) Notice 3) Infor | ce of Partisperson's Patent Drawing Review (First Partisperson's Patent Drawing Review (First Partisperson Pa | | Paper No(s |)/Mail Date formal Patent Application (PT | O-152) | | | |

DETAILED ACTION

Priority

Acknowledgement is made of the terminal disclaimer filed on 7/8/2005.

Specification

The disclosure is objected to because of the following minor informalities: page 9, line 25, "tissue grasper 6" should read "tissue grasper 60".

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims **57-72** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Mills** et al., U.S. Patent No. **5,037,021**, in view of **Solar** et al., U.S. Patent No. **5,947,983**. Both Mills and Solar disclose a surgical stapling apparatus and related methods.

Claim **57**: Mills's figures 5a-5c show a surgical stapling apparatus comprising a housing 200, a distal end cap (left hand side), a window 202, an anvil 260 formed on a first edge of the window, a stapling apparatus (comprising 206, 205, 209) mounted within the housing for movement between a stapling position (fig. 5c) and a tissue receiving position (fig. 5a) in which the staple firing surface 205 is separated from the

anvil 260 to open the window 202 and expose a tissue receiving cavity within an interior of the housing 200.

Figure 8 in Mills shows that the stapling apparatus is slidably coupleable to an endoscope 800 for advancement therealong.

Mills does not expressly disclose "a tissue grasping mechanism extendible through the window" but merely discloses a suction channel 204 and suction source for drawing tissue into the window cavity 202. Drawing the tissue into a cavity by means of suction or by means of a tissue grasping mechanism is obvious and well-known in the art. Solar discloses a tissue grasper 160 in figure 3. "Any embodiment of the present invention optionally includes a tissue grasper 160 within the third tube 130, as shown in FIG. 3. As is known in the art, the tissue grasper grabs tissue with, for example, a pair of jaws, 161. Use of the tissue grasper 160 is preferred where the third tube 130 is not a vacuum tube. In this situation, the cutting and stitching of tissue or protrusions from body lumen walls occurs by the methods as herein described and illustration, except that the grasped tissue is pulled into the third tube by the tissue grasper 160 rather than by the action of vacuum." Solar, col. 5, lines 24-33. Thus, it would be obvious to use a tissue grasper in place of the vacuum tube 204 in Mills in view of Solar.

Claim **58**: Mills's figure 8 shows a control handle (6 and 15) that remains outside the body, and a flexible sheath (800).

Claim **59**: It is considered inherent that the flexible sheath has a column strength sufficient to allow an operator to push the housing along an endoscope into a body lumen by pushing the flexible sheath into the body lumen.

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Claim **60**: As can be seen in Mills's figures 5a-5c, the stapling apparatus is mounted within the housing, and the staple 209 rotates about an axis found in the housing between the stapling (fig. 5c) and tissue receiving positions (fig. 5a).

Claim **61**: Part of the stapling apparatus (wire 206 and piston 205) in Mills moves substantially parallel to a longitudinal axis of the housing.

Claim 62: Mills does not expressly disclose a housing with an endoscope receiving lumen including a proximal and distal opening formed in the distal end of the cap. However, positioning a stapling apparatus over an endoscope, and thus having a proximal and distal end opening in the stapling apparatus housing, is old and well known in the art. Solar discloses, "The tubes 110, 120 and 130 are introduced into the body by any suitable means. It is preferred, however, that the device of the present invention be inserted into the body in association with an endoscope (e.g., within a working channel of an endoscope or over the exterior surface of an endoscope), which allows for the in-situ identification of diseased tissue. Once the endoscope is positioned to a target location within a body lumen, the device 100 is extended from the endoscope working channel to grasp, cut and remove diseased tissue." Solar, col. 5, lines 11-20. It would be obvious to insert an endoscope through the entire housing 200 in Mills so as to better view the stapling procedure.

Claim **63**: Mills's figure 8 shows a control handle (6 and 15) that remains outside the body, and a flexible sheath (800).

Claim **64**: Mills does not expressly disclose a tissue cutting mechanism, but Solar discloses a tissue cutting mechanism (figure 1B, numeral 132) very similar to applicant's

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that would be beneficial to use in Mills. In view of Solar, it would be obvious to place a tissue cutting mechanism in Mills's apparatus to remove diseased tissue, as is well-known in the art.

Claim **65**: The tissue cutting mechanism (fig. 1B) in Solar includes a partially cylindrical member rotatably mounted within the housing. The tissue cutting blade in Solar is not an angled cutting surface. However, Mills discloses an angled blade 44 for cutting thread. It would be obvious to use an angled blade so as to gradually cut the tissue which results in a more effective cut.

Claim **66**: As can be seen in Mills's figures 5a-5c, the stapling apparatus is mounted within the housing, and the staple 209 rotates about an axis found in the housing between the stapling (fig. 5c) and tissue receiving positions (fig. 5a).

Claim **67**: Part of the stapling apparatus (wire 206 and piston 205) in Mills moves substantially parallel to a longitudinal axis of the housing and across the window 202.

Claim **68**: Mills discloses a method comprising the steps of endoscopically locating a portion of tissue, sliding a housing along the endoscope to a desired position adjacent to the portion of tissue to be resected, the housing including the structure as described in claim **57** (see discussion above), moving the stapling apparatus to a tissue receiving position, drawing the portion of tissue to be resected into the housing through the window folded over so that two full thicknesses of tissue of a wall of the body lumen are received within the window (figs. 5a-5c); moving the stapling apparatus to the stapling position (fig. 5a – drawing the wire 206 and piston 205 back) clamping the portion of tissue to be resected between the stapling apparatus and the anvil (fig. 5c),

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driving staples from the stapling apparatus through the two thicknesses of wall tissue to couple the two thicknesses of wall tissue to one another; and (as mentioned above, in view of Solar, it would be obvious to do) cutting tissue radially within the stapled tissue from the stapled tissue. See Mills, col. 5, line 66 – col. 6, line 41; Mills, figs. 5a-5c; Mills, abstract; Solar, figs. 1A-1B.

Claim **69**: As mentioned above, part of the stapling apparatus (the staple 209) in Mills is rotated within the housing 200 between the tissue receiving (fig. 5a) and stapling positions (fig. 5c).

Claim **70**: As mentioned above, part of the stapling apparatus (wire 206 and piston 205) in Mills is moved longitudinally within the housing between the tissue receiving and stapling positions (figs. 5a-5c).

Claim **71**: As mentioned above, figure 8 in Mills discloses a control handle (6 and 15) which remains outside the body by a flexible sheath, and wherein the operative housing 200 is slid along the endoscope by pushing the flexible sheath into the body lumen.

Claim **72**: Mills discloses a flexible endoscope 800 (figure 8), a housing 200, a distal end cap (left hand side), a window 202, an anvil formed on a fist edge of the window 260, a stapling apparatus (206, 205, 209) mounted within the housing for movement between a stapling position (figure 5c) and a tissue receiving position (figure 5a) in which the staple firing surface 205 is separated from the anvil to open the window 202 and expose a tissue receiving cavity within an interior of the housing 200. Figure 8

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in Mills shows that the stapling apparatus is slidably coupleable to an endoscope 800

for advancement therealong.

As mentioned above, in view of Solar, it would be obvious to use a tissue grasper

in place of the vacuum tube 204 in Mills.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to M. Thomas Andersen whose telephone number is (571)

272-8024. The examiner can normally be reached on M-F 8AM-4:30PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Hayes can be reached on (571) 272-4959. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

M. Thomas Andersen

June 2, 2006

MICHAEL J. HAYES

MJHazer

SUPERVISORY PATENT EXAMINER